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1. *A Letter from the learned Mr John Flamsteed Astron. Reg. concerning the Eclipses of Jupiters Satellit's for the year following 1685. with a Catalogue of them, and informations concerning its use.*

Eclipses *Comitum Jovialium* ubique Terrarum Anno labente 1684. visibiles, Actis vestris *Philosophicis* Mensis *Decembris* Anni anteaacti 1683. Numero 154. edidi, è Novis motuum *Tabulis* supputatas, quas è propriis *Observationibus* cum antecedentibus Clariss. Hodiernæ, *Cassini*, *Rookii*, & *Townleii* collatis deduxeram. Observatis exinde nonnullis è prævisis cujuscunque *Satellit'is* Eclipsibus, *Tabulas* raro duo temporis minuta horaria in phasibus *Primi* aut *Quarti* à Calculo discrepare comperi; in defectibus autem *Tertii* & *Secundi Satellitis*, errores 5 vel 7 minutorum horæ prodire, & aliquando sed rarius duplo majores, unde innotuit, illorum Motus satis esse æquabiles, horum vero inæqualitatibus exiguis implicatos, quibus investigandis longiore opus esset experientia. Comperto hoc *Tabularum* cum *cælis* consensu, novam exinde Eclipsium *Catalogum* supputavi, in annum 1685, eumque vobis maturè edendum transmitto, illorum in gratiam, qui vel *Satellitum* Motibus accuratius restituendis mecum invigilant, vel difforum locorum distantias *Meridianas* cœlitus factis observationibus deducere cupiunt; cui negotio commodiora dari posse phænomena vix aliquis credet, si vel debite instructus eclipsis alicujus observationem tentet, vel observandi facilitatem, æquabilitatem cum velocitate motuum *Comitum Jovialium*, aut eclipsium frequentiam secum serio perpendet. Harum, quæ in *Nostro Horizonte* visibiles sunt, *Asterismo* [*] in *Catalogo* notantur; Reliquæ nobis inconspiciuæ iis in locis observandæ venient,
ubi

ubi tum temporis, sole infra *Horizontem* versante, *Jupiter* supra eum existit; at quibus limitibus ea in orbe nostro loca clauduntur, facile ope *Ephemeridum* vulgarium & *Globi* terrestris cognoscatur, Methodo sequenti.

Ad datum tempus cujuscunque *Immersonis* aut *Emersionis*, promatur ab *Ephemeride* locus verus *Solis*, cum loco *Jovis*, & latitudine Geocentrica; inde utriusque *Ascensio recta* deducenda est, cum declinatione ab *Equatore*; vel ope *Tabularum Primi Mobilis*; vel, si desint, ipsius *Globi*.

Sistatur tunc *Londinum* (cujus ferè ad *Meridianum* tempora Eclipsium supputantur) sub *Meridiano Globi* æneo, & notato *Æquatoris* gradu simul ipsum transeunte, auferatur inde (addito prius si opus est circulo) tempus eclipsis post Meridiem in gradus eorumque partes conversum, Arcus reliquus *Longitudinem* ostendit locorum omnium, quibus illa contigit satellitis Eclipsis, Sole *Meridianum* transeunte; quam propterea *Meridianam Eclipsis Longitudinem* appello.

Volvatur hæc *Meridiana Longitudo* ad *Meridianum Globi*, & elevato supra horizontem ejus Polo Soli propiore, quantum est ipsius declinatio, detentoque in ea positione immoto Globo, si sit ☿ in consequentia Solis, ducatur linea ipsum supra per finitorem (vulgo) orientalem, isthæc loca ea omnia designabit quibus tum temporis Sol occidit: Quod si ☿ sit in antecedentia Solis, scribatur linea per horizontem occidentalem, loca transcurreret quibus Sol tunc oritur.

Existente ☿ in consequentia Solis, *Meridianæ Longitudini* addatur differentia Ascensionum rectarum Solis & Jovis, Summæ huic respondens *Æquatoris* Gradus sistatur sub *Meridiano Globi*, & exerto supra finitorem Polo ☿i proximo, quantum ille ab *Æquatore* distat, manente immoto Globo, scribatur linea ipsum supra per horizontem ortivum; spatium hanc inter & lineam occasuum Solis anteductam interceptum, loca ea omnia

comprehendet, quibus Eclipsis observabilis est ab occasu Solis ad occasum Jovis.

Quod si \mathbb{W} in antecedentia Solis sit, à dicta *Meridiana Longitudine* auferatur differentia Ascensionum rectarum \mathbb{W} s & \odot s, siltaturque sub Meridiano Globi, Æquatoris gradus Arcui residuo respondens; tunc exerto ab horizonte Polo \mathbb{W} i proximo, quantum ipse ab Æquatore declinat, & fixo in ea positione Globo, ducatur linea ipsum supra per finitorem occidentalem, spatium hac & linea exortuum Solis anteducta inclusum, loca ea omnia complectitur, quibus eclipsis videnda erit ab exortu \mathbb{W} i ad exortum Solis.

Plura non addo quoniam hæc Cœlorum peritos monuisse sufficiant, videant alii quæ de hisce phænomenis fuse scripsi sermone Anglicano in Præfatione ad Catalogum Anni labentis Actis vestris Phil. editum Numero 154. Tu interea vale. Grenovici scripsi Octobris 28. 1684.

Catalogus Ecliptium Comitum Jovialium, etque Terrarum Anno Insequente 1685. Vitiolium, tempora Ingressuum illorum in Jovis Umbram, aut ab eâ Emissionum, sub Meridiano Grenovisano apparentia, exhibens, è Novis motuum Tabulis supputata; à Jo. Flamsteedio Math. Reg. & R. S. S.

Jan.			Febr.			Martii			Aprilis		
d	h		d	h		d	h		d	h	
1	21	29	1	6	34	1	7	2	2	5	57
2	10	13	2	17	51		16	56	19	22	2
	12	58	4	12	20	3	1	30	4	0	26
3	15	57		19	51	4	19	59	5	16	32
	20	23	6	6	49	5	6	24		18	57
5	10	24	7	5	54	6	14	28	6	8	40
7	4	52	8	1	17	7	21	51	7	13	24
	9	39		9	9	8	8	57	9	7	53
8	23	20	9	19	46		19	33		21	59
9	14	8	11	14	14	10	03	26	11	2	22
	16	53		22	26	11	21	55	12	20	32
10	17	48	13	8	43	12	8	51		20	51
	22	55		14	9	13	16	24	13	11	17
12	12	15	15	3	11	15	1	51	14	15	20
14	6	43		11	44		10	53	16	9	49
	12	11	16	21	40		22	10	17	0	36
16	1	11	18	16	9	17	5	22	18	4	18
	18	3	19	1	2	18	23	51	19	22	47
	20	47	20	10	37	19	11	28	20	0	31
17	19	39	21	13	51	20	18	20		13	54
18	1	27	22	5	6	22	5	51	21	17	15
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3	4	12	3	e	4	2	16	1	i	4	4	8	1	i	Umbrae semidiametro				
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16	20	34	2	e		11	32	1	i	18	3	16	2	i	19 : 12 : * 56				
17	9	34	1	e	18	5	59	1	i		7	47	1	i	Maii 6 : 6 : 56				
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20	9	52	2	e		21	22	3	i	21	16	32	2	*	25 : 12 : 45				
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28	0	29	1	e		20	45	1	i	28	19	3	2	*	23 6 42				
29	18	58	1	e	30	8	59	2	i		22	31	1	i	Dec. 10 0 30				
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